

In The Claims:

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Claims 1-9 (cancelled).

10. (Currently Amended) A method for analyzing the pattern of movements of the thoracolumbar part of the spinal column in a golf swing comprising:

- positioning a plurality of measurement value pick-ups that are mechanically independent of each other along the spinal column of a human body of an experimentee;

β1 - wherein said measurement value pick-ups are adapted for detecting movements three-dimensionally in degrees of angle per transit time measurement, the speed, acceleration and/or the direction of movement of the body measurement points to be sensed during the golf swing;

- recording the measurement value pick-ups as recorded value measurement data;

- coupling the recorded value measurement data ~~value pick-ups~~ to a data processing apparatus which processes the recorded value measurement data-values;

- storing measurement value comparative data from other experimentees in the data processing apparatus; and

- comparing the recorded value measurement ~~value~~-data to the measured value comparative data and representing ~~the~~-a measurement result on a display device coupled to the data processing apparatus, so that ~~the~~-an observer can recognize the quality of the measured golf swing of the experimentee in relation to other experimentees.

11. (Currently Amended) A method as in claim 10, wherein the number of measurement value pick-ups along the spinal column of a human body of an experimentee is three.

12. (Currently Amended) A method as in claim 10, wherein said measurement value pick-ups are ultrasonic measurement value pick-ups.

13. (Currently Amended) A method according to Claim 10, wherein the following parameters are ascertained in the golf swing individually and/or jointly:

- rotation of the lumbar spinal column—(~~alpha1 curve, LSC~~),
- rotation of the thoracic spinal column—(~~alpha2 curve, TSC~~),
- sagittal flexion of the lumbar spinal column—(~~beta1 curve~~),
- sagittal flexion of the thoracic spinal column—(~~beta2 curve~~),
- lateral flexion of the lumbar spinal column—(~~gamma1 curve~~), and
- lateral flexion of the thoracic spinal column—(~~gamma2 curve~~).

14. (Previously Presented) A method according to Claim 10, wherein an equilibrium measurement operation in the golf swing is also implemented.

15. (Currently Amended) A method according to Claim 10, wherein there are provided means, ~~by means of~~ for detecting ~~which the~~ club head behavior, in particular its direction and rotation in the golf swing, ~~is detected~~.

16. (Currently Amended) A method as in claim 15, wherein said means for detecting club head behavior ~~is~~ includes at least one of strain gauges and accelerometers.

B( 17. (Currently Amended) A method according to Claim 10, wherein the measurement values are ~~recorded~~ recorded, a video recording of the experimentee is made and the recorded measurement data and also the video recording can be represented on the display device.

18. (Currently Amended) A method according to Claim 10, wherein the anti-flexion, . rotation and lateral flexion of an experimentee in the golf swing are ascertained in various positions in the golf ~~swing~~ swing.

19. (Currently Amended) A method as in claim 18, wherein said positions of the golf swing are selected from ~~the~~ an address position, ~~the~~ an upper reversal point, ~~the~~ a hitting point and ~~the~~ a final position.

20. (Currently Amended) A method according to Claim 10, wherein the measurement value comparative data~~present comparative data~~, golf swing pattern card recordal or classification allocation is effected, in which golfers of different handicap scores are associated with given card recording values and that categorization of the experimentee in an ~~the~~ overall card recordal is effected on the basis of the measured recorded data.

21. (Previously Presented) A method according to Claim 10, wherein the classification card recordal comprises a plurality of surfaces and that different surfaces are associated with different performance stages of a golfer.

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22. (Currently Amended) A method for analyzing the pattern of movements of the thoracolumbar part of the spinal column in a golf swing comprising:

- positioning a plurality of measurement value pick-ups that are mechanically independent of each other on the human body;

- adapting the measurement value pick-ups ~~the measurement value pick ups are adapted~~ for detecting movements three-dimensionally in degrees of angle per transit time measurement, the speed, acceleration and/or the direction of movement of the body measurement points to be sensed during the golf swing;

- coupling the measurement value pick-ups to a data processing apparatus which processes the measurement value pick-ups as recorded value measurement data~~values~~; and

- representing the recorded measurement value data on the display device which is coupled to the data processing apparatus,

wherein the measurement value data is displayed in the form of a measurement value curve prepared therefrom, and wherein the measurement value data is displayed in such a way that an observer can recognize the quality of the measured golf swing of the experimentee.

B1 23. (Currently Amended) A method as in claim 22, wherein the number of measurement value pick-ups along the spinal column of a human body of an experimentee is three.

24. (Currently Amended) A method as in claim 22, wherein said measurement value pickups are placed along the spinal ~~column~~column.

25. (Currently Amended) A method as in claim 22, wherein said measurement value pick-ups are ultrasonic measurement value pick-ups.

26. (Cancelled)

27. (Cancelled)